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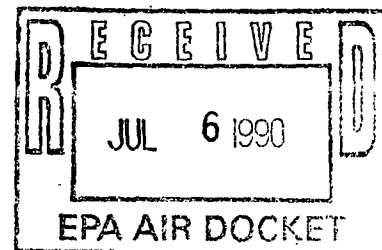
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May 30, 1990



Mr. D. McKay
Editor
Octane Week
499 South Capital St., S.W.
Suite 406
Washington, DC 20003

Dear Mr. McKay:

I have read the recent articles by George Unzelman on MMT with interest. He rightly refers to the successful use of MMT in Canada. We at Petro-Canada support this. We have carried out an investigation of catalyst performance in a number of high mileage cars and found excellent to reasonable performance even after over 160,000 km (twice the warranty period) of driving exposed to up to 18 mg/L of manganese. By excellent, we mean meeting the current Canadian and U.S. emission standards even though a number of these vehicles were required to meet the less stringent pre 1987 Canadian standards. Catalysts from all vehicles were tested for pressure drop in operation and were then removed and analyzed. No indication of catalyst plugging was found. Manganese was found, as expected, on all the catalysts but, interestingly, the catalyst with the highest manganese level had the best performance in terms of emissions.

This work, which is continuing, is being carried out in collaboration with the Ministry of Transportation of Ontario and will be reported formally on its completion.

Yours truly,

C. M. Pyburn, Ph.D.
Senior Co-ordinator,
Fuels

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